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Form PTO-1449 (modified)

Atty. Docket No.
UTSC:656US

Serial No.
09/883,110

List of Patents and Publications for Applicant's

Applicant
Peter R.C. Gascoyne *et al.*

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:
June 14, 2001

Group:
1741

U.S. Patent Documents
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Foreign Patent Documents
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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
<i>AV</i>	C75	Goater <i>et al.</i> , "A combined travelling wave dielectrophoresis and electrorotation device: applied to the concentration of cryptosporidium," <i>J. Phys. D: Appl. Phys.</i> , 30:L65-L69, 1997. ✓

* most of publication currently unknown

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EXAMINER:

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Filing Date: June 14, 2001		Group: 1741	
Applicant Peter R. C. Gascoyne <i>et al.</i>			



U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
an	A1	4,001,102	1/4/97	Batha <i>et al.</i>	204	186	6/23/75
an	A2	4,326,934	4/27/82	Pohl	204	180	12/31/79
an	A3	4,440,638	4/3/84	Judy <i>et al.</i>	210	198.2	2/16/82
an	A4	5,344,535	9/6/94	Betts <i>et al.</i>	204	183.1	4/27/93
an	A5	5,454,472	10/3/95	Benecke <i>et al.</i>	209	127.1	8/19/92
an	A6	5,489,506	2/6/96	Crane	435	2	2/16/95
an	A7	5,569,367	10/29/96	Betts <i>et al.</i>	204	547	1/27/95
an	A8	5,571,401	11/5/96	Lewis <i>et al.</i>	205	787	3/27/95
an	A9	5,653,859	8/5/97	Parton <i>et al.</i>	204	450	1/21/94
an	A10	5,683,569	11/4/97	Chung <i>et al.</i>	205	775	2/28/96
an	A11	5,814,200	9/29/98	Pethig <i>et al.</i>	204	547	3/31/94
an	A12	5,858,192	1/12/99	Becker <i>et al.</i>	204	547	10/18/96
an	A13	5,888,370	3/30/99	Becker <i>et al.</i>	204	643	2/23/96
an	A14	5,965,452	10/12/99	Kovacs	436	149	7/9/96
an	A15	5,993,630	11/30/99	Becker <i>et al.</i>	204	547	1/31/96
an	A16	5,993,631	11/30/99	Parton <i>et al.</i>	204	547	7/8/97
an	A17	5,993,632	11/30/99	Becker <i>et al.</i>	204	547	2/1/99
an	A18	6,010,616	1/4/00	Lewis <i>et al.</i>	205	787	12/8/97
an	A19	6,017,696	1/25/00	Heller	435	6	7/7/94
an	A20	6,093,308	7/25/00	Lewis <i>et al.</i>	205	787	2/26/99
an	A21	6,099,803	8/8/00	Ackley <i>et al.</i>	422	68.1	2/20/98
an	A22	6,113,768	9/5/00	Fuhr <i>et al.</i>	204	643	12/23/94
an	A23	6,129,828	10/10/00	Sheldon, III <i>et al.</i>	204	518	9/6/96

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EXAMINER: Alb. Hegerle | DATE CONSIDERED: 01/29/2004

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<i>an</i>	A24	6,224,745 B1	5/1/01	Baltruschat	205	775	3/5/98
<i>an</i>	A25	6,225,059 B1	5/1/01	Ackley <i>et al.</i>	435	6	1/29/99
<i>an</i>	A26	6,287,832 B1	9/11/01	Becker <i>et al.</i>	435	173.9	9/14/99
<i>an</i>	A27	6,294,063 B1	9/25/01	Becker <i>et al.</i>	204	450	2/12/99

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
<i>an</i>	B1	474723	6/25/75	USSR	204	643	
<i>an</i>	B2	EP 0513064	11/19/92	Europe			
<i>an</i>	B3	EP 0625267	11/23/94	Europe			
<i>an</i>	B4	EP 0680380	11/8/95	Europe			
<i>an</i>	B5	EP 0691891	1/17/96	Europe			
<i>an</i>	B6	EP 0898493	3/3/99	Europe			
<i>an</i>	B7	GB 2266153	10/20/93	UK			
<i>an</i>	B8	JP 1-196566	8/8/89	Japan			Abstract only
<i>an</i>	B9	JP 5-126796	5/21/93	Japan			Abstract only
<i>an</i>	B10	JP 6-18523	1/25/94	Japan			Abstract only
<i>an</i>	B11	WO 00/69565	11/23/00	PCT			
<i>an</i>	B12	WO 90/08759	8/9/90	PCT			
<i>an</i>	B13	WO 91/11262	8/8/91	PCT			
<i>an</i>	B14	WO 93/16383	8/19/93	PCT			
<i>an</i>	B15	WO 93/20927	10/28/93	PCT			
<i>an</i>	B16	WO 94/16821	8/4/94	PCT			

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EXAMINER: *Ch. Noyes* | DATE CONSIDERED: *01/29/2004*

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an	B17	WO 94/22583	10/13/94	PCT			
an	B18	WO 95/13813	5/26/95	PCT			
an	B19	WO 96/31282	10/10/96	PCT			
an	B20	WO 97/34689	9/25/97	PCT			
an	B21	WO 99/62622	12/9/99	PCT			

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an	C1	"Bangor biochip heads for California," EPSRC Home Page: http://www.epsrc.ac.uk/documents/about_epsrc/corporate_publications/bangor.ht , article printed on December 26, 2000.
an	C2	"Diagnostic dielectrophoresis-on-a-chip," <i>Science/Technology</i> , 77(8):32, 1999. Article printed from http://pubs.acs.org/hotartcl/cenear/99022/7708scitobox2.html on December 26, 2000.
an	C3	Allsopp <i>et al.</i> , "Impedance technique for measuring dielectrophoretic collection of microbiological particles," <i>J. Phys. D: Appl. Phys.</i> , 32:1066-1074, 1999.
an	C4	Arnold and Zimmermann, "Rotation of an isolated cell in a rotating electric field," <i>Naturwissenschaften</i> 69 297-300, 1982.
an	C5	Balachandran <i>et al.</i> , "Electrostatic atomization of conducting liquids using AC superimposed on DC fields," <i>IEEE Transactions on Industry Applications</i> , 30(4):850-854, 1994.
an	C6	Becker <i>et al.</i> , "Separation of human breast cancer cells from blood by differential dielectric affinity," <i>Proc. Natl. Acad. Sci. USA</i> , 92(3):860-864, 1995.
an	C7	Becker <i>et al.</i> , "The removal of human leukaemia cells from blood using interdigitated microelectrodes," <i>J. Phys. D: Appl. Phys.</i> , 27:2659-2662, 1994.
an	C8	Cheng <i>et al.</i> , "Preparation and hybridization analysis of DNA/RNA from <i>E. coli</i> on microfabricated bioelectronic chips," <i>Nature Biotechnology</i> , 16:541-546, 1998.
an	C9	Davis and Giddings, "Feasibility study of dielectrical field-flow fractionation," <i>Separation Science and Technology</i> , 21(9):969-989, 1986.

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Printer: If no publication month is stated, then it is currently unknown.

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an	C10	De Gasperis <i>et al.</i> , "Microfluidic cell separation by 2-D dielectrophoresis," <i>Biomedical Microdevices</i> , 2:11, 41-49, 1999.
an	C11	El-Kishky and Gorur, "Electric field and energy computation on wet insulating surfaces," <i>IEEE Transaction on Dielectrics and Electrical Insulation</i> , 3(4):587-593, 1996.
an	C12	El-Kishky and Gorur, "Electric field computation on an insulating surface with discrete water droplets," <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 3(3):450-456, 1996.
an	C13	Fuller <i>et al.</i> , "Microfabricated multi-frequency particle impedance characterization system," <i>Micro Total Analysis System</i> , 265-268, May 2000.
an	C14	Galicki <i>et al.</i> , "Electrohydrodynamic atomization of dielectric fluids," <i>Conference on Electrical Insulation and Dielectric Phenomena</i> , IEEE Annual Report, 365-368, 1996.
an	C15	Gascoyne <i>et al.</i> , "A microfluidic device combining dielectrophoresis and field flow fractionation for particle and cell discrimination," <i>Proceedings of Solid State Sensor and Actuator Workshop, Hilton Head Supplement</i> , 37-38, 1998.
an	C16	Gascoyne <i>et al.</i> , "Cell separation by conventional dielectrophoresis combined with field-flow-fractionation," <i>Abstract, 40th Annual Meeting of the Biophysical Society</i> , Baltimore, Maryland, P. A333, Tu-Pos412, February 17-21, 1996.
an	C17	Gascoyne <i>et al.</i> , "Dielectrophoretic separation of cancer cells from blood," Presented at the Institute for Electrical Engineers Industrial Application Society meeting, Orlando, FL, October 1995 <i>IEEE</i> , 1366-1373, 1995.
an	C18	Gascoyne <i>et al.</i> , "Dielectrophoretic separation of cancer cells from blood," <i>IEEE Transactions on Industry Applications</i> , 33(3):670-678, 1997. May/June
an	C19	Gascoyne <i>et al.</i> , "Dielectrophoretic separation of mammalian cells studied by computerized image analysis," <i>Meas. Sci. Technol.</i> , 3:439-445, 1992.
an	C20	Gascoyne <i>et al.</i> , "Manipulations of biological cells using travelling-wave dielectrophoresis," <i>Proc. 16th IEEE:Eng. Med. Biol. Soc.</i> , 772-773, 1994.
an	C21	Gascoyne <i>et al.</i> , "Membrane changes accompanying the induced differentiation of friend murine erythroleukemia cells studied by dielectrophoresis," <i>Biochim. Biophys. Acta</i> , 1149:119-126, 1993.

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
am	C22	Gascoyne <i>et al.</i> , "Numerical analysis of the influence of experimental conditions on the accuracy of dielectric parameters derived from electrorotation measurements," <i>Bioelectrochem. Bioenerg.</i> , 36:115-125, 1994.
am	C23	Gascoyne <i>et al.</i> , "Use of dielectrophoretic collection spectra for characterization differences between normal and cancerous cells," <i>IEEE Trans. Ind. Appl.</i> , 30:829-834, 1994. <i>July/August</i>
am	C24	Gawad <i>et al.</i> , "Impedance spectroscopy cell analysis in microchannels," <i>Micro Total Analysis Systems</i> , 253-255, 2001.
am	C25	Gawad <i>et al.</i> , "Micronarcined impedance spectroscopy flow cytometer for cell analysis and particle sizing," <i>Lab on a Chip</i> , 1:76-82, 2001.
am	C26	Giddings, "Field-flow fractionation: analysis of macromolecular, colloidal, and particulate materials," <i>Science</i> , 260:1456-1465, 1993. <i>June</i>
am	C27	Hagendorn <i>et al.</i> , "Travelling-wave dielectrophoresis of microparticles," <i>Electrophoresis</i> , 13:49-54, 1992.
am	C28	He <i>et al.</i> , "Droplet charge-to-mass ratio measurement in an EHD liquid-liquid extraction system," <i>IEEE Transactions on Industry Applications</i> , 32(1):146-154, 1996. <i>Jan./Feb.</i>
am	C29	Higashiyama <i>et al.</i> , "Behavior of water droplets located on a hydrophobic insulating plate under DC field," <i>IEEE</i> , 1808-1813, 1998.
am	C30	Hoffman and Britt, "Flow-system measurement of a cell impedance properties," <i>J. Histochemistry and Cytochemistry</i> , 27:234-240, 1979.
am	C31	Hoffman <i>et al.</i> , "Flow cytometric electronic direct current volume and radiofrequency impedance measurements of single cells and particles," <i>Cytometry</i> , 1:377-384, 1981.
am	C32	Hölzel and Lamprecht, "Dielectric properties of yeast cells as determined by electrorotation," <i>Biochim. Biophys. Acta</i> 1104:195-200, 1992.
am	C33	Hosokawa <i>et al.</i> , "Handling of picoliter liquid samples in a Poly(dimethylsiloxane)-based microfluidic device," <i>Anal. Chem.</i> , 71:4781-4785, 1999. <i>Oct.</i>
am	C34	Huang <i>et al.</i> , "Application of AC electrokinetics for cell characterization and manipulation," <i>Abstract, 40th Annual Meeting of the Biophysical Society, Baltimore, Maryland, P. A334, Tu-Pos413, February 17-21, 1996.</i>

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
an	C35	Huang <i>et al.</i> , "Differences in the AC electrodynamics of viable and non-viable yeast cells determined through combined dielectrophoresis and electrorotation studies," <i>Phys. Med. Biol.</i> , 37(7):1499-1517, 1992.
an	C36	Huang <i>et al.</i> , "Electrokinetic behaviour of colloidal particles in travelling electric fields: studies using yeast cells," <i>J. Phys. D: Appl. Phys.</i> 26:1528-1535, 1993.
an	C37	Huang <i>et al.</i> , "Electrorotational studies of the cytoplasmic dielectric properties of Friend murine erythroleukaemia cells," <i>Phys. Med. Biol.</i> , 40:1789-1806, 1995.
an	C38	Huang <i>et al.</i> , "Introducing dielectrophoresis as a new force field for field-flow fractionation," <i>Biophys. J.</i> , 73:1118-1129, 1997. <i>Aug.</i>
an	C39	Huang <i>et al.</i> , "The removal of human breast cancer cells from hematopoietic CD34+ stem cells by dielectrophoretic field-flow-fractionation," <i>J. of Hematotherapy & Stem Cell Research</i> , 8(5): 481-490, 1999.
an	C40	Huneiti <i>et al.</i> , "Harmonic spraying of conducting liquids employing AC-DC electric fields," <i>IEEE Transactions on Industry Applications</i> , 34(2):279-285, 1998. <i>March/April</i>
an	C41	Jinsart <i>et al.</i> , "Inhibition of myosin light chain kinase, cAMP-dependent protein kinase, protein kinase C and of plant CA-dependent protein kinase by anthraquinones," <i>Biological Chemistry</i> , 373:903-910, 1992.
an	C42	Jones and Kallio, 'Dielectrophoretic levitation of spheres and shells,' <i>J. Electrostat.</i> , 6:207-224, 1979.
an	C43	Jones, <i>Electromechanics of Particles</i> , Cambridge University Press, Cambridge, Chapter 3:34-82, 1995.
an	C44	Kashyap and Gratzl, "Electrochemistry in microscopic domains. 1. The electrochemical cell and its voltammetric and amperometric response," <i>Anal Chem.</i> , 70:1468-1476, 1998. <i>April</i>
an	C45	Kloes and Koenig, "Basic investigation of the performance of droplets on electrically stressed polymer surfaces," <i>Conference on Electrical Insulation and Dielectric Phenomena</i> , IEEE Annual Report, 374-377, 1997.
an	C46	Lee and Kim, "Liquid micromotor driven by continuous electrowetting," <i>IEEE</i> , 538-543, 1998.
an	C47	Markx and Pethig, "Dielectrophoretic separation of cells: continuous separation," <i>Biotechnology and Bioengineering</i> , 45:337-343, 1995.

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EXAMINER: *Allen Nagendra* | DATE CONSIDERED: *01/29/2004*

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Exam. Init.	Ref. Des.	Citation
AM	C48	Markx <i>et al.</i> , "Dielectrophoretic characterization and separation of micro-organisms," <i>Microbiol.</i> , 140:585-591, 1994.
AM	C49	Massey, "Mechanics of Fluids," 2 nd Edition, 136-139, 1975.
AM	C50	Metwally, "Electrostatic charging and modeling of aqueous sprays and fission of droplets," <i>Conference on Electrical Insulation and Dielectric Phenomena</i> , IEEE Annual Report, 117-120, 1996.
AM	C51	Mizuno <i>et al.</i> , "Behavior of water droplets on silicone rubber sheet under AC voltage application," <i>IEEE</i> , 96-99, 1998.
AM	C52	Moesner <i>et al.</i> , "Electrostatic devices for particle microhandling," <i>IEEE Transactions on Industry Applications</i> , 35(3):530-536, 1999.
AM	C53	Sathuvalli and Bayazitoglu, "The lorentz forces on an electrically conducting sphere in an alternating magnetic field," <i>IEEE Transactions on Magnetics</i> , 32(2):386-399, 1996.
AM	C54	Sato <i>et al.</i> , "Experimental investigation of droplet formation mechanisms by electrostatic dispersion in a liquid-liquid system," <i>IEEE Transactions on Industry Applications</i> , 33(6):1527-1534, 1997.
AM	C55	Sato <i>et al.</i> , "Production of oil/water type uniformly sized droplets using a convergent AC electric field," <i>IEEE Transactions on Industry Applications</i> , 32(1):138-145, 1996.
AM	C56	Vennard, "Elementary Fluid Mechanics," 150-155, 1954. <i>3rd ed. John Wiley & Sons</i>
AM	C57	Wang <i>et al.</i> , "A theoretical method of electrical field analysis for dielectrophoretic electrode arrays using Green's theorem," <i>J. Phys. D: Appl. Phys.</i> , 29:1649-1660, 1996.
AM	C58	Wang <i>et al.</i> , "A Unified theory of dielectrophoresis and travelling wave dielectrophoresis," <i>J. Phys. D: Appl. Phys.</i> , 27:1571-1574, 1994.
AM	C59	Wang <i>et al.</i> , "Changes in Friend murine erythroleukaemia cell membranes during induced differentiation determined by electrorotation," <i>Biochimica et Biophysica Acta</i> , 1193:330-334, 1994.
AM	C60	Wang <i>et al.</i> , "Dielectrophoretic manipulation of cells using spiral electrode arrays," <i>Abstract</i> , 40 th Annual Meeting of the Biophysical Society, Baltimore, Maryland, p. A333, Tu-Pos411, February 17-21, 1996.

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